

We claim:

1. An apparatus, comprising:
a chamber having a first port and a second port for flow of fluid
5 therethrough;
a means for connecting at least one vascular graft within said
chamber; and
a means for imparting radial and shear stresses to said at least one
vascular graft.
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2. The apparatus of claim 1, wherein said imparting means is attached
to said connecting means such that fluid may pass through said at least one
vascular graft.
- 15 3. The apparatus of claim 2, wherein said imparting means comprises a
means for forcing fluid through said at least one vascular graft such that fluid
comes into contact with said at least one vascular graft; and said means for forcing
fluid comprises a means for alternating the flow of said fluid.
- 20 4. The apparatus of claim 3, wherein said imparting means further
comprises a means for creating an alternating back pressure within said at least one
vascular graft.
- 25 5. The apparatus of claim 4, wherein said means for creating back
pressure comprises a means for restricting the flow of said fluid out of said at least
one vascular graft.
6. The apparatus of claim 5, wherein said means for alternating the
flow of said fluid comprises a pump.
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7. An apparatus for seeding and culturing vascular grafts, comprising: